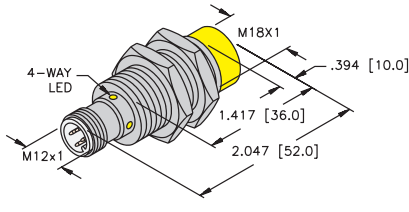
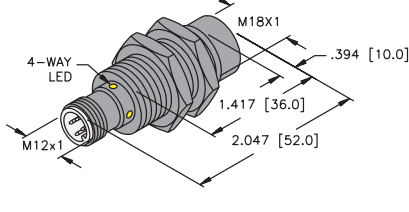
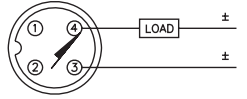
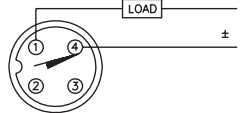
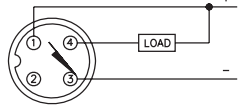
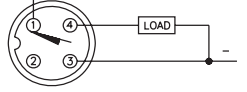
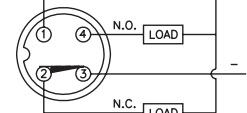
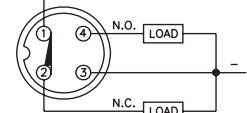
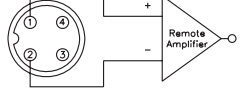
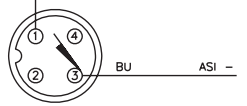


# Inductive Sensors

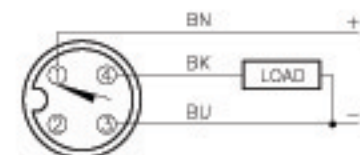


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
<b>18 mm - Nonembeddable, eurofast® Connection</b> 	Ni 8-M18-AD4X-H1141	T4414700		8	2-Wire DC
	Ni 8-M18-AD4X-H1144	T4411288		8	
	Ni 14-M18-AD4X-H1141	T4417241	Ext. Range	14	
	Ni 14-M18-AD4X-H1144	T4417290	Ext. Range	14	
	Ni 8-M18-AN6X-H1141	T4614800		8	3-Wire DC NPN
	Ni 10-EM18WD-AN6X-H1141	M4653433	Washdown	10	
	Ni 10-M18-AN6X-H1141	T4614892		10	
	Ni 10-M18WD-AN6X-H1141	M4653440	Washdown	10	
	Ni 12U-EM18-AN6X-H1141	M1645350	Uprox	12	
	Ni 12U-EM18-AN6X2-H1141	M1645355	Uprox	12	
	Ni 15U-EM18WD-AN6X-H1141	M1634835	Uprox Washdown	15	
	Ni 12U-M18-AN6X-H1141	M1645150	Uprox	12	
	Ni 12U-M18-AN6X2-H1141	M1645155	Uprox	12	
	Ni 14-M18-AN6X-H1141	T4611410	Ext. Range	14	
	Ni 8-M18-AP6X-H1141	T4614700		8	3-Wire DC PNP
	Ni 10-EM18WD-AP6X-H1141	M4653419	Washdown	10	
	Ni 10-M18-AP6X-H1141	T4641291		10	
	Ni 12U-EM18-AP6X-H1141	M1645340	Uprox	12	
	Ni 12U-EM18-AP6X2-H1141	M1645345	Uprox	12	
	Ni 12U-M18-AP6X-H1141	M1645140	Uprox	12	
Ni 12U-M18-AP6X2-H1141	M1645145	Uprox	12		
Ni 14-M18-AP6X-H1141	T4611400	Ext. Range	14		
Ni 8-M18-VN4X-H1141	T1571900	Comp. Outputs	8	4-Wire DC NPN	
Ni 14-M18-VN4X-H1141	T4590603	Ext. Range	14		
Ni 8-M18-VP4X-H1141	T1561900	Comp. Outputs	8	4-Wire DC PNP	
Ni 14-M18-VP4X-H1141	T4590602	Ext. Range	14		
Ni 10-M18-Y1X-H1141	M4015300		10	2-Wire NAMUR	
Ni 12U-M18-ASIX-H1140	M1901005	Uprox	12	2-Wire ASI-BUS	
<b>18 mm - Nonembeddable, eurofast connection, Teflon Coated</b> 	Ni 12U-MT18-AN6X-H1141	M1645250	Uprox	12	3-Wire DC NPN
	Ni 12U-MT18-AP6X-H1141	M1645240	Uprox	12	3-Wire DC PNP
	Ni 12U-MT18-AP6X2-H1141	M1645245	Uprox	12	
	Ni 12U-MT18H-AP6X-H1141/S1589	M1645292	weldguard® Uprox	12	
	Ni 12U-MT18H-AP6X2-H1141/S1589	M1645293	weldguard Uprox	12	

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	<b>Diagram 1</b> 
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*/S674	2	
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*/S674	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	<b>Diagram 2</b> 
	500	≤200	-25 to +85	IP 68, IP 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	3	
	1000	≤200	-30 to +85	IP 68, IP 69K	SS	PVDF	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	<b>Diagram 3</b> 
	500	≤200	-25 to +85	IP 68, 69K	SS	PVDF	N/A	YE	RK 4T-*	4	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	4	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	<b>Diagram 4</b> 
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	<b>Diagram 5</b> 
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
5-30 VDC	500	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7	<b>Diagram 6</b> 
	200	N/A	-30 to +85	IP 68	CPB	PA 12	N/A	YE	RKC 254-*M	8	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	<b>Diagram 7</b> 
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	<b>Diagram 8</b> 
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKG 4T-*/S600	4	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKG 4T-*/S600	4	

\* Length in meters.

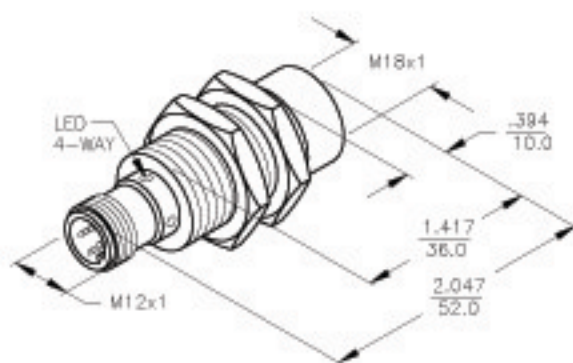
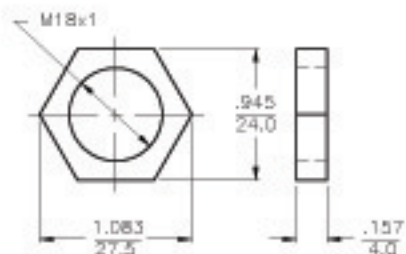
## WIRING DIAGRAM



OUTPUT: AP6X

SHORT-CIRCUIT AND OVERLOAD PROTECTED

## LOCKNUT LN-M18



## SPECIFICATIONS

OPERATING VOLTAGE	10-30 VDC
RIPPLE	≤ 10%
DIFFERENTIAL TRAVEL (HYSTERESIS)	3-15% (5% TYPICAL)
VOLTAGE DROP ACROSS CONDUCTING SENSOR	≤ 1.8 V at 200 mA
OUTPUT FUNCTION	NORMALLY OPEN 3-WIRE DC SELF-CONTAINED
SHORT-CIRCUIT PROTECTED	YES
TRIGGER CURRENT FOR OVERLOAD PROTECTION	≥ 220 mA
CONTINUOUS LOAD CURRENT	≤ 200 mA
OFF-STATE (LEAKAGE) CURRENT	≤ 0.1 mA
NO-LOAD CURRENT	≤ 15 mA
TIME DELAY BEFORE AVAILABILITY	≤ 8 ms
POWER-ON EFFECT	PER IEC 947-5-2
REVERSE POLARITY PROTECTION	INCORPORATED
WIRE-BREAK PROTECTION	INCORPORATED
PROTECTION AGAINST TRANSIENTS	Per EN 60947-5-2
OPERATING TEMPERATURE (10% DRIFT)	-25°C to +70°C (-13°F to +158°F)
OPERATING TEMPERATURE (15% DRIFT)	-30°C to +85°C (-22°F to +185°F)
ENCLOSURE	MEETS NEMA 1, 3, 4, 6, 13 AND IEC IP68
SHOCK	30 g, 11 ms
VIBRATION	55 Hz, 1 mm AMPLITUDE (IN ALL 3 PLANES)
LED FUNCTION	LED ON: OUTPUT ENERGIZED LED FLASHING: SHORT-CIRCUIT WARNING
RATED OPERATING DISTANCE(Sn)	12 mm = .472" (NOMINAL)
SWITCHING FREQUENCY	2000 Hz
REPEATABILITY	≤ 2% of RATED OPERATING DISTANCE
EMBEDDABLE (SHIELDED)	NO
MATING PLUGS/CABLES	4-PIN EUROFAST® CONSTRUCTION

## NOTES:

1. UPROX HAS WELD FIELD IMMUNITY, SENSOR IS SUITABLE FOR USE ON RESISTANCE MACHINES.

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	MATERIAL BRASS BARREL	TOLERANCES UNLESS OTHERWISE SPECIFIED 0.0394in [1.00mm]	DRFT IK USDR		
FINISH COPPER/NICKEL CHROME PLATING	UNIT OF MEASUREMENT <b>INCH [ MILLIMETER ]</b>		IDENTIFICATION NO. M1645140		REV A
A UPDATE SENSOR GEOMETRY REV DESCRIPTION	CBM 09/27/99 BY DATE EDD NO.	DO NOT SCALE THIS DRAWING		FILE: M1645140	SHEET 1 OF 1